

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000655

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H03L 7/099, H03L 7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H03L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1104111 A1 (LUCENT TECHNOLOGIES INC.), 16 October 2000 (16.10.2000), column 3, line 36 - column 4, line 8 --	1,3,4
Y	--	2,5
Y	US 6175284 B1 (YASUHIRO SAKURAI ET AL), 16 January 2001 (16.01.2001), column 1, line 10 - line 20; column 3, line 26 - column 4, line 15, figure 1 --	2,5
X	EP 0944172 A2 (CONEXANT SYSTEMS, INC.), 22 Sept 1999 (22.09.1999), figure 4, abstract --	1,3,4

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"B" earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

8 March 2004

Date of mailing of the international search report

05-05-2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5650754 A (SHANKAR R. JOSHI ET AL), 22 July 1997 (22.07.1997), column 6, line 1 - line 19; column 5, line 16 - line 35 -- -----	1,3,4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/FI 2003/000655

EP	1104111	A1	16/10/2000	JP	2001177407 A	29/06/2001
				US	6594330 B	15/07/2003
US	6175284	B1	16/01/2001	JP	2000156609 A	06/06/2000
EP	0944172	A2	22/09/1999	CN	1237042 A	01/12/1999
				US	6005443 A	21/12/1999
				US	6150890 A	21/11/2000
US	5650754	A	22/07/1997		NONE	